CONN
S
43
.E22
no.935

Mary Jane Incorvia Mattina

Analysis of Commercial Fertilizers
1995

Please
handle this volume
with care.

The University of Connecticut
Libraries, Storrs

3 9153 01143706 0

Conn.
Ag8.11:
no.935

Conn.
CONN
S
43
.E2
no.93

The Connecticut Agricultural Experiment Station, New Haven

Analysis of Commercial Fertilizers 1995

BY MARY JANE INCORVIA MATTINA

Bulletin 935
May 1996

From January 1, 1995 through December 31, 1995 the Department of Analytical Chemistry analyzed 197 fertilizer samples to determine that the label guarantee on the product is in compliance with State of Connecticut Regulations. Determinations of the macronutrients, nitrogen, phosphorus (as P_2O_5) and potassium (as K_2O), as well as a large number of micronutrients were made.

Forty-two different manufacturers were represented in this year's survey. Of the 197 samples submitted for analysis, 64 (32%) were reported out as "unsatisfactory." A sample is considered to be unsatisfactory if the value for a parameter is below the guaranteed value by more than the permissible percentage established by the Association of American Plant Food Control Officials. Specifically, 29 (14.7%) samples were deficient in nitrogen, 7 (3.5%) were deficient in phosphorus, and 21 (10.6%) were deficient in potassium. Thirteen samples were found to be deficient only in one or more of the micronutrients, but not in the macronutrients. A deficiency in a parameter is indicated by a "-" sign next to the "%F" value of the macronutrients in Table 1 or one of the miscellaneous micronutrients in Table 2.

The samples were collected by Alton VanDyke and John Schneider of the Connecticut Department of Agriculture. The analyses were performed by Craig Musante and Mamie Pyles under the supervision of Dr. David Stilwell.

The Connecticut Agricultural Experiment Station is an Equal Opportunity, Affirmative Action Employer. Persons with disabilities who require alternate means of communication of program information should contact the Station Editor at (203) 789-7223 (voice) or 789-7232 (FAX) or caesadmn@caes.state.ct.us (e-mail).

Table 1. Analytical results for the 1995 fertilizer samples.

	N		P_2O_5		K_2O	
	%G	%F	%G	%F	%G	%F
AGRI-TURF INC.						
Agri-Turf All-Pupose Garden Fertilizer 10-6-4	10	8.1-	6	8.7	4	4.2
Agri-Turf All-Pupose Garden Fertilizer 5-10-10	5	5	10	13.4	10	12.8
Agri-Turf All-Pupose Garden Fertilizer 5-10-5	5	5.3	10	14.4	5	6.6
Agri-Turf All-Pupose Lawn & Garden Fertilizer 10-10-10	10	11.3	10	13.1	10	12.9
Agri-Turf Bulk Blend 19-10-21	19.4	18-	10.7	10.6	21.6	25.1
Premium Fertilizer 15-0-5	15	15.6	0	0	5	5.6
AGWAY, INC.						
Agway 13-13-13	13	13.5	13	14.3	13	15
Agway Blend-Rite 10-10-10	10	10.1	10	12.6	10	10.3
Agway Blend-Rite 10-20-20	10	10.1	20	21	20	20.5
Agway Blend-Rite 15-15-15	15	11.1-	15	18.2	15	20.4
Agway Blend-Rite 15-8-12	15	16.35	8	9.45	12	12.2
Agway Blend-Rite 5-10-10	5	5.52	10	12.8	10	12.4
Agway Bulk 0-3-21	0	0	3	4.2	21	22.8
Agway Bulk 14-1-9	14	13.6	1	2.2	9	10.2
Agway Bulk 23-12-18	23	24.2	12	14.4	18	23.5
Agway Bulk 24-12-17	24	32.2	12	14.9	17	7.9-
Agway Bulk 24-12-18	24	31.4	12	14.1	18	6.2-
Agway Bulk Blend 17-0-36	17	21.4	0	0	36	34.8
Agway Bulk Blend 19-0-34	19	20.6	0	0	34	33.2
Agway Bulk Blend 23-0-29	23	24.4	0	0	29	25.5-
Agway Bulk Blend 23-0-29	23	25.9	0	0	29	30.4
Agway Bulk Blend 23-0-29	23	26.4	0	0	29	28.8
Agway Bulk Blend 23-12-8	23	24.5	12	17.2	8	17.6
Agway Bulk Blend 24-0-28	24	26.4	0	0	28	30.5
Agway Bulk Blend 24-4-24	24	23.7	4	5.1	24	24.5
Agway Bulk Blend 24-4-24	24	27.9	4	4	24	21.1-
Agway Bulk Blend 27-0-24	27	31.9	0	0	24	20.2-
Agway Bulk Blend 29-9-13	29	34.3	9	3.8-	13	12.5
Agway Bulk Blend 30-0-20	30	33.9	0	0	20	15.3
Agway Bulk Blend 33-6-11	33	32.5	6	7.3	11	11.6
Agway Early Edge Crop Starter 10-20-10	10	11.54	20	23	10	11.1
Agway Early Edge Crop Starter 13-13-13	13	14.1	13	14.1	13	13
AH HOFFMAN						
Hoffman All Purpose Garden Fertilizer 5-10-5	5	4.5	10	8.8-	5	4.9
Hoffman Azalea & Evergreen Food 10-4-6	10	11.7	4	5.9	6	8
Hoffman Dehydrated Super Manure 4-2-2	4	3.9	2	5	2	3.7
Hoffman Holly Food 4-6-4	4	5.5	6	11.3	4	3.9
ALASKA FISH FERTILIZER CO.						
Alaska Fish Fertilizers 5-1-1	5	5.4	1	2.3	1	1.6
AY SCHULTZ CO.						
Schultz Instant Bloom 10-60-10	10	10.4	60	61.9	10	9.8
CADWELL & JONES						
20-10-10 (plain brown bag)	20	19.1-	10	12.3	10	9.7

Table 1. Analytical results for the 1995 fertilizer samples (continued).

	N		P_2O_5		K_2O	
	%G	%F	%G	%F	%G	%F
C&J 19-19-19	19	20.2	19	21.9	19	19.4
C&J Green's Grade 20-3-20	20	20.1	3	10.8	20	20.2
C&J Specialty 10-10-10	10	13.9	10	10.8	10	11.4
C&J Specialty 28-7-14	28	24.7-	7	10.3	14	13.7
C&J Specialty 33-5-5	33	33.5	5	7.2	5	4.6
C&J Specialty Fertilizer 10-6-4	10	14.2	6	8.7	4	4.3
C&J Specialty Fertilizer 5-10-10	5	7.8	10	14.2	10	13.8
C&J Surge High Protein Plant Food 7-7-7	7	6.2-	7	2.8-	7	15
C&J Turf Products 30-3-10	30	30.5	3	9.6	10	10.2
Cadwell & Jones 18-0-36	18	14.2-	0	0	36	49.1
Cadwell & Jones Turf Products 10-6-4	10	6.2-	6	4.9-	4	5.3
Old Fox Green Gro 20-4-8	20	23.3	4	8.1	8	9.9
Old Fox Super Vegetable Pride Garden Food 10-10-10	10	11.6	10	13.5	10	12
Poly's Tree Food 18-11-17	18	17.1-	11	12.1	17	19.4
Super Surge Lawn Food 20-10-10	20	23.8	10	12.8	10	8.9-
Surge Soluable Tree Food 12-26-26	12	12.9	26	32.2	26	30.4
CHEVRON CHEMICAL CO., ORTHO CONSUMER PRODUCTS						
Ortho Up-Start Vitamin B-1 Plant Starter with 3-10-3 Fertilizer	3	4	10	12.1	3	3.1
Ortho Vegetable Food 8-10-8	8	9.9	10	14.8	8	7.6
Ortho Yard Basics All Purpose Plant Fertilizer 8-8-8	8	9.3	8	9.6	8	8.6
CROP PRODUCTION SERVICES						
CPS 0-10-40 with Borate	0		10	13.3	40	46.1
CPS 10-10-10	10	7.4-	10	11.1	10	13.6
CPS 10-20-20	10	7.7-	20	16.9-	20	20.7
CPS 10-23-1	10	12.1	23	27.1	1	1.3
CPS 10-6-12	10	8.1-	6	5.5	12	16.4
CPS 15-10-10	15	14.7	10	14.1	10	11.5
CPS 15-10-10	15	15.5	10	11	10	10
CPS 15-15-15	15	15.7	15	16	15	12.7-
CPS 15-30-15	15	15.4	30	31.3	15	15.2
CPS 15-8-12 with Micros	15	12.6-	8	8.3	12	14
CPS 19-19-19	19	12.1-	19	15.3-	19	22
CPS 20-10-10	20	17.7-	10	11.4	10	10.5
CPS 20-10-25	20	17.9-	10	10.8	25	28.1
CPS 24-12-18	24	24.5	12	13.2	18	19.1
CPS 25-5-23.5	25	25.8	5	5.7	23.5	24.5
CPS 28-7-14	28	21-	7	8.58	14	19.6
CPS 3.2-7.9-11.9	3.2	3.8	7.9	20	11.9	9.1-
CPS 4.5-11.5-23	4.5	4.5	11.5	13.3	23	23.5
CPS 5-10-10	5	4.26-	10	10.2	10	10.1
CPS 8-24-16 with Sulfur, Boron & Zinc	8	8.1	24	25.1	16	17.3
CPS Special 14-14-14	14	16.3	14	15.5	14	13.7
CPS Tobacco 10-8-10	10	10.7	8	10.1	10	10.6
CPS X-Mas Tree Mix 18-11-17 with ATU	18	18.8	11	15.3	17	17
Crop Production Services 6-4.7-8.6	6	7.2	4.7	7	8.6	10.4
Village Green 10-6-4	10	10.5	6	7.1	4	4
Village Green 5-10-10	5	3.4-	10	7.7-	10	10.2
Village Green Professional Turf Food 10-10-10	10	10.4	10	15.4	10	11.7

Table 1. Analytical results for the 1995 fertilizer samples (continued).

	N		P_2O_5		K_2O	
	%G	%F	%G	%F	%G	%F
Village Green Professional Turf Food 10-10-10	10	8.55-	10	11	10	11.5
Village Green Professional Turf Food 10-6-4, 50% Slow Release N	10	16.7	6	10.5	4	4.8
Village Green Professional Turf Food 12-25-12	12	15.4	25	30.6	12	11.6
Village Green Professional Turf Food 20-10-10, 50% Slow Release N	20	10.7-	10	19.4	10	9.64
Village Green Professional Turf Food 28-15-11	28	31	5	5.75	11	10.3
Village Green Professional Turf Food 5-10-10	5	5	10	10.5	10	12.1
Village Green Professional Turf Food Shrub Gro 4-8-4	4	4.6	8	9.6	4	1-
DECRAN AG SUPPLIES, INC.						
DeCran 5-10-5	5	4.5-	10	9.7	5	4.7
DeCran Deluxe 10-10-10	10	11	10	15.4	10	10
DRAGON CORP.						
Dragon Tomato Vegetable Food 5-10-5	5	5.1	10	12.6	5	6.9
EARTHGRO INC.						
1881 Select Lawn Food 8-2-4	8	7.8	2	4.1	4	4.9
Better Homes & Gardens Composted Manure 0.5-0.5-0.5	0.5	0.6	0.5	0.74	0.5	0.84
Earthgro Lawn Food 8-2-4	8	7.9	2	4.8	4	4.3
GRACE-SIERRA HORTICULTURAL PRODUCTS CO.						
Peter's Professional All Purpose Plant Food 20-20-20	20	20.4	20	21.2	20	20
Peter's Professional Houseplant Food 15-30-15	15	16.9	30	34.3	15	19.2
GREENVIEW CHEMICAL CORP.						
Greenview Certified All Natural Organic Fertilizer 3-4-3	3	4.1	4	5.5	3	3.9
Greenview Two-Way Weed & Feed 30-4-4	30	30.9	4	4.4	4	3.7
HARMONY PRODUCTS						
Harmony Lawn Food 14-3-6	14	17.7	3	4.8	6	7.8
HOWARD JOHNSON'S ENTERPRISES						
Green Charm Premium Lawn Starter 17-23-6	17	18.7	23	26.2	6	6.7
Green Charm Weed & Feed 28-3-3	28	32.6	3	5.1	3	2.9
JONATHAN GREEN, INC.						
Jonathan Green Green-Up 30-5-5	30	31.42	5	5.8	5	5
Jonathan Green New Seeding Fert + Crabgrass Preventer 10-15-10	10	11.5	15	18.2	10	12.5
Jonathan Green New Seeding Fertilizer 14-28-15	14	11.6-	28	28.5	15	18
Jonathan Green Spring Green-Up With Crabgrass Preventer 25-3-5	25	26.1	3	4	5	4-
Jonathan Green Summer Survival Insect Control & Lawn Fert 18-2-3	18	20.3	2	3.9	3	2.52-
Jonathan Green Super Green-Up 27-3-7	27	28.4	3	4	7	6.4-
Jonathan Green Weed and Feed 22-4-4	22	26.2	4	6.4	4	4.7
Jonathan Green Winter Survival 10-18-20 Fall Fertilizer	10	10.1	18	20.3	20	21.8
LEBANON CHEMICAL CO.						
Greenview Green Power + Insect Control 25-3-3	25	25.2	3	5.4	3	5.4
Greenview Green Power 30-4-4	30	32.6	4	4.8	4	4.1
Greenview Green Power Lawn Fertilizer 30-4-4	30	30.6	4	4.2	4	5
Greenview Greenpro Insect Control + Grass Food 19-4-4	19	20.2	4	5.3	4	5.9

Table 1. Analytical results for the 1995 fertilizer samples (continued).

	N		P_2O_5		K_2O	
	%G	%F	%G	%F	%G	%F
Greenview Winter Green 10-16-20	10	11.1	16	15.6	20	21.7
Greenview Winter Green Fertilizer 10-16-20	10	10.9	16	16.9	20	23.2
Lebanon Extra 10-20-10	10	10.9	20	22	20	22.9
Lebanon Grass Food 10-6-4	10	10.1	6	6.1	4	5.1
Lebanon Lawn & Garden Food 5-10-5	5	5.6	10	10.1	5	5.2
Lebanon Lawn & Garden Multi-Purpose Fertilizer 10-10-10	10	10.7	10	12.2	10	9.4
Lebanon Lawn & Garden Vegetable Garden Food 5-10-10	5	5.2	10	9.3	10	9.5
Lebanon Vegetable Garden Food 5-10-10	5	9.7	10	16.3	10	11.4
Re-Nu Fall Fertilizer 10-18-10	10	12.9	18	19.7	10	12
Re-Nu Seed Starter Fertilizer 11-23-10	11	12.3	23	28.3	10	13.1
Ru-Nu Seed Starter Fertilizer 11-23-10	11	13.4	23	27.1	10	12.6
LESCO INC.						
Lesco Professional Starter Fertilizer 18-24-12	18	19.2	24	27.6	12	13.1
Lesco Professional Turf Fertilizer 24-5-11	24	26.7	5	6.9	11	12.4
Lesco Professional Weed & Feed 22-5-7	22	23.2	5	6.1	7	7.9
LIVING SOILS, INC.						
Ion 2000 6-10-25	6	8	10	13	25	22.1-
LOFT'S SEEDS, INC.						
Loft's All Season Seed Starter 20-22-14	20	21.2	22	28.5	14	13.9
Loft's All-Purpose Lawn Fertilizer 10-6-4	10	10.7	6	9.5	4	6.3
MILORGANITE DIVISION - MMSD						
Milorganite 6-2-0	6	8.3	2	3.5		
MIRACLE-GRO LAWN PRODUCTS						
Miracle-Gro Lawn Food 32-4-10	32	32.1	4	4.7	10	11.1
NECESSARY ORGANICS, INC.						
Concern Vitalize All Purpose Natural Plant Food 7-5-5	7	8	5	7.9	5	4.2-
Concern Vitalize Fish & Kelp Formula 3-2-2	3	3.8	2	3.4	2	2.2
NO KNOWN PRODUCER						
10-10-10 (plain bag)	10	6.9-	10	11.1	10	9.8
NUTRICO, INC.						
Nutrico 5-10-5 Garden & Shrub	5	5.2	10	12.9	5	4.4-
Nutrico All Purpose 10-10-10	10	10.4	10	12.5	10	11.2
Nutrico Professional Tomato, Shrub & Garden Food 5-10-10	5	5.2	10	10.7	10	2.5-
Salem Country Gardens Premium Lawn Fertilizer 26-4-6	26	26.8	4	5.1	6	5.5
Salem Country Gardens Starter Fertilizer 14-22-6	14	15.4	22	25.5	6	7.8
Salem Country Gardens 10-20-12 Premium Fall Lawn Food	10	10.1	20	21.7	12	15
Salem Country Gardens Crabgrass Preventer+Lawn Fertilizer 25-5-10	25	26.9	5	6.4	10	10.5
Salem Country Gardens Tomato, Shrub & Garden 5-10-10	5	5.1	10	11.2	10	9.7
O.M. SCOTT & SONS						
Scott's Step 1 Crabgrass Preventer Plus Fertilizer 32-3-10	32	32.1	3	3.8	10	13.2
Scott's Step 2 Weed Control Plus Fertilizer 32-4-3	32	35.6	4	4.7	3	5.4

Table 1. Analytical results for the 1995 fertilizer samples (continued).

	N		P_2O_5		K_2O	
	%G	%F	%G	%F	%G	%F
Scott's Step 4 Lawn Fertilizer 33-3-10	33	33.7	3	3.7	10	12.8
Scott's Turf Food 37-3-3	37	35.3-	3	3.7	3	3.8
PARKER FERTILIZER CO., INC.						
Parker's Soilife All Purpose 10-10-10	10	10.2	10	11.9	10	12.1
Parker's Soilife All Purpose 5-10-5	5	5.5	10	12.3	5	5.9
PLANT RIGHT, INC.						
Plant Right All Natural Organic Flower & Vegetable 3-4-3	3	4.1	4	5.6	3	3.9
Plant Right All Natural Organic Lawn Fertilizer 4-5-4	4	4.1	5	6.6	4	4.7
PURSELL INDUSTRIES, INC.						
Sam's Choice Superior Lawn Fertilizer 30-2-14	30	30.2	2	4.1	14	16.3
Serviston Weed & Feed 28-3-3	28	27.1-	3	3.4	3	3.4
RINGER CORPORATION						
Ringer Lawn Restore	10	10	2	2.6	6	7
ROSS DANIELS, INC.						
Ross Gro-Stakes Fertilizer for Ornamental Trees & Shrubs 8-16-16	8	10.8	16	19.1	16	20.5
Ross Gro-Stakes Fertilizer for Trees & Shrubs 16-10-9	16	17.7	10	13.7	9	8.5
Ross Gro-Stakes for Evergreens 10-10-10	10	12.2	10	13.9	10	11.8
SALEM COUNTRY GARDENS						
Salem Country Gardens 5-10-5 Garden & Shrub Fertilizer	5	4.8	10	12.3	5	4.9
Salem Country Gardens All-Purpose Fertilizer 10-10-10	10	9.5	10	10.6	10	9.4
Salem Country Gardens All-Purpose Fertilizer 30-5-10	30	30.7	5	5.2	10	8.9-
Salem Country Gardens Starter Fertilizer 18-25-12	18	19.3	25	29.5	12	9.3-
SOUTHERN STATES FERTILIZER						
Green Charger Fertilizer 10-6-4	10	8.7-	6	6.6	4	4.7
STERN'S MIRACLE-GRO PRODUCTS						
Stern's Liquid Miracle-Gro African Violet Food 7-7-7	7	7.1	7	7.5	7	7.5
Stern's Miracle-Gro 6-12-6 Plant Food Spikes	6	6.6	12	14.4	6	6.2
Stern's Miracle-Gro All Purpose Plant Food 15-30-15	15	16.2	30	32.2	15	16.1
THE ANDERSONS						
Loft's All-Purpose Garden Food 5-10-5	5	3.8-	10	17.6	5	7.1
Loft's Insect Control + Lawn Food with Diazinon 18-3-5	18	19.5	3	5.4	5	4.7
Loft's Lawn Food 28-3-8	28	33.9	3	4.2	8	7.4
Loft's Lawn, Garden & Shrub Food 10-10-10	10	10.4	10	14.9	10	11.6
Loft's Weed & Feed 22-3-4	22	22.9	3	3.1	4	4.2
True Value Green Thumb Lawn Food 20-4-8	20	25.2	4	5.1	8	10.8
True Value Green Thumb Weed & Feed 16-4-8	16	16.4	4	5	8	8.7
THE ESPOMA CO.						
Espoma Bulb-Tone 4-10-6	4	4.6	10	16.1	6	5.3-
Espoma Garden-Tone 4-6-6	4	6.1	6	7.4	6	10.5
Espoma Holly-Tone 4-6-4	4	4.3	6	8.2	4	4.3

Table 1. Analytical results for the 1995 fertilizer samples (continued).

	N		P_2O_5		K_2O	
	%G	%F	%G	%F	%G	%F
Espoma Organic Lawn Food 18-8-6	18	19.1	8	10.8	6	5.3-
Espoma Plant-Tone 5-3-3	5	6	3	5	3	6.8
Espoma Rose-Tone 6-6-4	6	6.9	6	9.5	4	5.6
Espoma Tree-Tone 9-5-4	9	10.5	5	7.5	4	4.4
VANBLOEM'S						
VanBloem's Perennial Booster Fertilizer 11-12-6	11	10.8	12	15.8	6	8
VIGORO INDUSTRIES, INC.						
Gro-Tone Crabgrass Preventer + Lawn Fertilizer 30-4-6	30	28.8-	4	3.8	6	7.3
Gro-Tone Evergreen Food 6-8-6	6	5.7	8	14.1	6	6.5
Gro-Tone Fall, Winter & Starter Fertilizer	12	12.1	23	25.3	18	20.8
Gro-Tone Lawn Fertilizer 30-4-6	30	30.7	4	4.7	6	6.6
Gro-Tone Plant Food 5-10-5	5	5.4	10	11.3	5	5.5
K-Gro Premium Lawn Fertilizer	29	31	3	3.8	4	3.9
K-Gro Premium Weed & Feed 28-3-3	28	29.2	3	3.6	3	3.9
Vigoro Weed Control + Lawn Fertilizer 30-4-6	30	30.4	4	5	6	5.9
VOLUNTARY PURCHASING GROUPS, INC.						
Ferti-Lome Rose Food 14-12-11	14	14.5	12	13.2	11	13.2
WALMART						
Sam's Choice Weed & Feed 28-2-14	28	29.3	2	3.1	14	14.8
WEATHERLY CONSUMER PRODUCTS, INC.						
Jobe's All Natural Tomato Fertilizer Spikes 4-8-8	4	7.7	8	9.2	8	7.6
Jobe's Fertilizer Spikes 8-24-8	8	10.7	24	33.4	8	7.2-
Jobe's Plant Food Spikes for Houseplants 13-4-5	13	14.6	4	6.1	5	6.8

Table 2. Analytical results for the 1995 fertilizer samples for micronutrients.

AGRI-TURF INC.
Agri-Turf Bulk Blend 19-10-21—iron 1.1-

AY SCHULTZ CO.
Schultz Instant Bloom 10-60-10—manganese 0.05, zinc 0.05, iron 0.09

EARTHGRO INC.
Earthgro Lawn Food 8-2-4—magnesium 0.4-, calcium 2.4-, sulfur 2.3-
1881 Select Lawn Food 8-2-4—magnesium 0.47-, calcium 3, sulfur 2.7

GRACE-SIERRA HORTICULTURAL PRODUCTS CO.
Peter's Professional All Purpose Plant Food 20-20-20—boron 0.02, manganese 0.05, zinc 0.1, copper 0.05, iron 0.1, molybdenum 0.001

GREENVIEW CHEMICAL CORP.
Greenview Certified All Natural Organic Fertilizer 3-4-3—manganese 0.04, zinc 0.05, magnesium 1.1, iron 0.2, calcium 12.8

HARMONY PRODUCTS
Harmony Lawn Food 14-3-6—calcium 5.9, iron 1.3,5.9

JONATHAN GREEN, INC.
Jonathan Green Weed and Feed 22-4-4—sulfur 2
Jonathan Green Winter Survival 10-18-20 Fall Fertilizer—sulfur 4.9, iron 0.6-
Jonathan Green Super Green-Up 27-3-7—sulfur 11.4, iron 0.48
Jonathan Green New Seeding Fertilizer 14-28-15—sulfur 0.8-, iron 0.6-
Jonathan Green Green-Up 30-5-5—sulfur 3.3-, iron 0.65

LEBANON CHEMICAL CO.
Lebanon Vegetable Garden Food 5-10-10—magnesium 4.4,
Lebanon Extra 10-20-10—sulfur 6.8, zinc 0.055, boron 0.022, manganese 0.027-, iron 0.68-
Greenview Winter Green 10-16-20—sulfur 6.7, magnesium 2.2, manganese 0.37- , iron 1.1
Greenview Greenpro Insect Control + Grass Food 19-4-4—sulfur 16.6

LESCO INC.
Lesco Professional Turf Fertilizer 24-5-11—sulfur 3.42, manganese 0.81-, iron 1.03-
Lesco Professional Starter Fertilizer 18-24-12—sulfur 6.67
Lesco Professional Weed & Feed 22-5-7—sulfur 10.1, manganese 0.37, iron 0.71

LIVING SOILS, INC.
Ion 2000 6-10-25—boron 0.01-, manganese 0.08, zinc 0.04, copper 0.03, iron 0.05, molybdenum 0.001

MILORGANITE DIVISION—MMSD
Milorganite 6-2-0—iron 5.

MIRACLE-GRO LAWN PRODUCTS
Miracle-Gro Lawn Food 32-4-10—iron 0.75

NECESSARY ORGANICS, INC.
Concern Vitalize All Purpose Natural Plant Food 7-5-5—zinc 1.4, magnesium 0.8

NUTRICO, INC
Salem Country Gardens Starter Fertilizer 14-22-6—sulfur 2.5, iron 0.59
Salem Country Gardens 10-20-12 Premium Fall Lawn Food—iron 0.48-
Salem Country Gardens Crabgrass Preventer+Lawn Fertilizer 25-5-10—sulfur 2.8

STERN'S MIRACLE-GRO PRODUCTS
Stern's Liquid Miracle-Gro African Violet Food 7-7-7—boron 0.03, manganese 0.07, zinc 0.07, copper 0.05, iron 0.4
Stern's Miracle-Gro All Purpose Plant Food 15-30-15—boron 0.02, manganese 0.05, zinc 0.08, copper 0.09, iron 0.21, molybdenum 0.001
Stern's Miracle-Gro 6-12-6 Plant Food Spikes—zinc 0.07, magnesium 0.73, boron 0.03, manganese 0.07, iron 0.60, copper 0.05

THE ANDERSONS
Loft's Weed & Feed 22-3-4—sulfur 3.7
Loft's Lawn Food 28-3-8—sulfur 1.5
Loft's Insect Control + Lawn Food with Diazinon 18-3-5—sulfur 1.9

VIGORO INDUSTRIES, INC.
K-Gro Premium Lawn Fertilizer—sulfur 2.7, iron 0.13-
K-Gro Premium Weed & Feed 28-3-3—sulfur 2.9
Gro-Tone Crabgrass Preventer + Lawn Fertilizer 30-4-6—iron 0.95
Gro-Tone Lawn Fertilizer 30-4-6—iron 0.8-
Vigoro Weed Control + Lawn Fertilizer 30-4-6—iron 0.9
Gro-Tone Fall, Winter & Starter Fertilizer—iron 1.6

The Connecticut Agricultural Experiment Station, founded in 1875, is the first experiment station in America. It is chartered by the General Assembly to make scientific inquiries and experiments regarding plants and their pests, insects, soil and water, and to perform analyses for State agencies. The laboratories of the Station are in New Haven and Windsor; its Lockwood Farm is in Hamden. Single copies of bulletins are available free upon request to Publications; Box 1106; New Haven, Connecticut 06504. ISSN 0097-0905

University of
Connecticut
Libraries

39153028616839